

WHAT IS CLAIMED IS:

1. A rotating electric machine, comprising:

a bowl-like housing having a through hole penetrated by  
a shaft and having a cutout portion in a part of an opening  
5 portion;

a commutator fixed to the shaft;

a base fixed to the housing by a clamp screw and having  
a tapped hole through which the clamp screw is inserted with  
a play;

10 a brush disposed in the base and rubbing against the  
commutator;

a plate having a joint portion to which a lead wire led  
outside is welded and fixed to the base;

a grommet penetrated by the lead wire and engaged in the  
15 cutout portion of the housing; and

a positioning unit which positions the lead wire to be  
welded in the joint portion.

2. The rotating electric machine according to claim 1,  
20 wherein the positioning unit is made of a resin material for  
forming the base and formed integrally with the base.

3. The rotating electric machine according to claim 1,  
wherein the positioning unit has a tapered face for leading  
25 the lead wire to a welding position.

4. The rotating electric machine according to claim 1,  
wherein the lead wire has a conductor including a plurality  
of element wires; and

5 top end portions of the plurality of element wires are  
welded to be fixed to the joint portion while a covering thereon  
is removed.

5. The rotating electric machine according to claim 1,  
10 wherein the lead wire includes a plurality of lead wires;  
the positioning unit includes a plurality of positioning units;  
an interval between the lead wires penetrating through  
the grommet and an interval between the positioning units are  
equal.

15 6. The rotating electric machine according to claim 1,  
wherein the grommet has a thinned portion around the outer  
circumference of the lead wire penetrating through the grommet  
on the side of the joint portion.

20 7. The rotating electric machine according to claim 1,  
further comprising: an elastic body;  
wherein the base is fixed via the elastic body to the  
housing.

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8. The rotating electric machine according to claim 1, wherein the plate is insert molded into the base by a resin material forming the base; and

the joint portion being disposed inside an outer  
5 circumferential face of the base.

9. The rotating electric machine according to claim 1, the rotating electric machine is a brush motor employed for an electric power steering apparatus.

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